

PALM INTRANET

Day : Thursday

Date: 1/6/2005

Time: 16:03:50

Inventor Information for 10/734882

Inventor Name	City	State/Country			
CHILDERS, WAYNE E.	NEW HOPE	PENNSYLVANIA			
KELLY, MICHAEL G.	THOUSAND OAKS	CALIFORNIA			
SCHECHTER, LEE E.	TOMS RIVER	NEW JERSEY			
ROSENZWEIG-LIPSON, SHARON J.	EAST BRUNSWICK	NEW JERSEY			
Search Another: Application#	Ality/Agent Info Continuit or Patent#	y Data Foreign Data Search			
PCT //	Search or PG PUBS #	2			
Attorney Docket #	Seare	ħ.			

Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

Bar Code #[

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	352	514/255.03	USPAT	OR	OFF	2005/01/06 15:50
L2	7960	\$serotonin\$	USPAT	OR	OFF	2005/01/06 15:50
L3	72	I1 and I2	USPAT	OR	OFF	2005/01/06 15:50

10/734,882 Page 3

16-17 16-21 17-18 18-19 19-20 20-21 isolated ring systems : containing 1 : 10 : 22 :

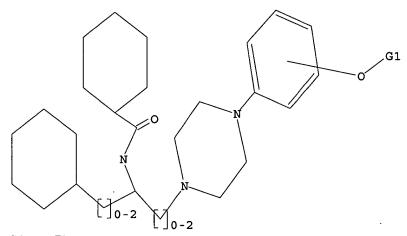
G1:CH3,Et

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS 30:CLASS 31:CLASS 33:CLASS 34:CLASS

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR



G1 Me,Et

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:40:15 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

PROJECTED ITERATIONS: 5 TO 234

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full FULL SEARCH INITIATED 15:40:21 FILE 'REGISTRY'

Habte 01/06/2005

10/734,882 Page 4

FULL SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS 11 ANSWERS

SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 15:40:25 ON 06 JAN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 6 Jan 2005 VOL 142 ISS 2 FILE LAST UPDATED: 5 Jan 2005 (20050105/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4 3 L3

=> d ibib abs hitstr tot

Habte 01/06/2005



10/734,882

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2002:832771 CAPLUS DOCUMENT NUMBER: 137:337919

137:337919
Preparation of piperazines as serotonin 5-HTIA receptor antagonists with long duration of in vivo effects and as redioligands for binding studies Childers, Mayme Everett; Kelly, Michael Gerard; Schechter, Lee Erwin; Rosenzweig-Lipson, Sharon Joy Wyeth, John, and Brother Ltd., USA PCT Int. Appl. 21 pp. CODEN: PIXXD2
Patent TITLE: INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE: ,

DOCUMENT TYPE:

English

LANGUAGE: PAMILY ACC. NUM. COUNT:

PATENT	INFOR	MATI	ON:															
								APPLICATION NO.										
						-												
WQ 2002085871								1 WO 2002-US10274					20020402					
w	WO 2002085871			A3		2003	0220											
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		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC.	EE,	ES,	PI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS.	JP,	KE,	KG.	KP,	KR,	KZ,	LC,	LK,	LR,	
		LS,	LŦ,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO.	NZ.	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	AZ,	BY,	KG.	KZ,	MD,	RU,	TJ,	
TM																		
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		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
		BF,	BJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
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U	S 6696	450			82		2004	0224										
U	5 2004	1275	05		A1		2004	0701		US 2	003-	7348	82		2	0031	212	
PRIORI	TY APP	LN.	INFO	.:						US 2	001-	2815	42P		P 2	0010	404	
										US 2	002-	1145	77		A3 2	0020	402	

OTHER SOURCE(S): MARPAT 137:337919

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 474013-04-2 CAPLUS
CN Cyclohexanecarboxamide,
N-[(IR)-2-cyclohexyl-1-[[4-{2-(methoxy-t3)phenyl]1-piperazinyl]methyl]ethyl]-1-methyl- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

474013-09-7 CAPLUS
Cyclohexanecarboxamide,
(1R)-2-cyclohexy1-1-[[4-[2-(methoxy-13C)pheny1]1-piperaziny1]methy1]ethy1]-1-methy1- (9CI) (CA INDEX NAME)

474013-12-2 CAPLUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-1-methyl-, monohydrochloride, monohydrate (9CI)(CA INDEX NAME)

Absolute stereochemistry.

Habte

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB Title compds. I [R1, R2 = H, alkyl; R3 = radiolabel, e.g., 3H, 13C, 14C etc.; p = 0, 1] and their pharmaceutically acceptable salts were prepared

For example, coupling of [(1R)-1-cyclohexylmethyl-2-{4-(2-methoxyphenyl)piperazin-1-yl}ethyl]amine and
1-methylcyclohexanecarboxylic
acid chloride provided claimed piperazine II in 63 % yield. In human serotonin 5-HT1A receptor binding assays, compound II exhibited an IC50 value of 1.23 nM. Compds. I have a long duration of action, with half-lives measured by days rather than hours, making them useful for the treatment of chronic diseases resulting from the dysfunction of the serotonergic 5-HT1A system. Also, radiolabeling of compds. I are claimed useful as ligands for binding studies, for in vitro and in vivo imaging of

of

cells and for use in positron emission topog. (PET) studies in mammals.

17 252894-71-69 474013-04-2P 474013-09-7P

474013-12-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of piperazines as serotonin 5-HTIA receptor

antagonists with long duration of in vivo effects and as radioligand.

ptor
 antagonists with long duration of in vivo effects and as radioligands
 for binding studies)
252894-71-6 CAPLUS
Cyclohexanecarboxamide, N-{(1R}-2-cyclohexyl-1-[{4-(2-methoxyphenyl)-1-piperazinyl]methyl}ethyl]-1-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

• HCl

● H₂O

Page 6

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS On STN ACCESSION NUMBER: 2002:309881 CAPLUS DOCUMENT NUMBER: 136:325567

TITLE:

136:325567
Preparation of cycloalkyl-substituted
sryl-piperazines, piperidines and tetrahydropyridines
as serotonergic agents
Childers, Mayme E.; Kelly, Michael G.; Palmer, Yvette
L.; Podleany, Edward J.
American Home Products Corporation, USA
U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 333,158,
abandoned.
CODEN: USXXXAM
Patent
English
1 INVENTOR(S):

PATENT ASSIGNER(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
US 6376494	B1	20020423	US 2000-723478 2000	1128
US 2002156075	A1	20021024	US 2002-107866 2002	0327
US 6518272	B2	20030211		
US 2003139449	A1	20030724	US 2003-340087 2003	0110
PRIORITY APPLN. INFO.:			US 1998-135107P P 1998	0615
			US 1999-333158 B2 1999	0614
			US 2000-723478 A3 2000	1128
			US 2002-107866 A3 2002	0327

OTHER SOURCE(S): MARPAT 136:325567

The title compds. [I; X = II-IV; n = 1-5; Rl = (un)substituted C6-10-aryl or mono or bicyclic heteroaryl, with a provision that heteroaryl is not thiadiazole; R3 = H, alkyl; R3 = H, CORS, CORRS, CONRSRG; R4 = H, alkyl, alkenyl, etc.; and their pharmaceutically acceptable selts which have activity as 5-HTLA agonists

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

252894-56-7 CAPLUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[(4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl}-N-methyl-, dihydrochloride (9C1) (CA INDEX NAME)

Absolute stereochemistry

●2 HCl

252894-57-8 CAPLUS

Cyclohexanecarboxamide, N-{(1R)-2-cyclohexyl-1-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-N,l-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSMER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) and antagonists and therefore may be useful for the treatment of anxiety and depression, were prepd. Thus, reacting {(IR)-1-cyclohexylmethyl-2-[4- (2-methoxyphenyl]piperazin-1-ylethyl]amine with cyclohexanecarboxylic acid chloride in the presence of Et3N in CH2Cl2 afforded 85% (IR)-1.2HCl (X = II (RI = 2-MeOcGH4); n = 3; R2 = H; R3 = cyclohexylcarbonyl] which showed IC50 of 0.57 nM against 5-HT1A receptor binding.

IT 252894-58-5P 252894-55-6P 252894-56-7P 252894-57-2P 252894-57-2P R1: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therspeutic usel; BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cycloalkyl-substituted aryl-piperazines, piperidines

(preparation of cycloalkyl-substituted aryl-piperazines, piperidines

tetrahydropyridines as serotonergic agents)
252894-54-5 CAPUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[(4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HCl

252894-55-6 CAPLUS
Cyclohexanecarboxamide, N-[(IR)-2-cyclohexyl-1-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

252894-70-5 CAPLUS Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-{[4-{2-methoxyphenyl}-1-piperaxinyl|methyl|ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

252894-71-6 CAPLUS

Cyclohexanecarboxamide, N-{(1R)-2-cyclohexyl-1-[{4-{2-methoxyphenyl}-1-piperazinyl}methyl]ethyl}-1-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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Page 7

ANSMER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 252894-72-7 CAPLUS (Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-N-methyl- (9CI) (CA INDEX NAME)

252894-73-8 CAPLUS

Absolute stereochemistry.

REPERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR 24

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

The title compds. [I; X = II - IV; n = 1 - 5; RI = C6 - 10 - aryl or mono or bicyclic heteroaryl, with a proviso that heteroaryl is not thiadiazole;

= H, alkyl; R3 = H, COR5, CO2R5, CONR5R6; R4 = H, alkyl, alkenyl, etc.; R5, R6 = H, alkyl, alkenyl, etc.) and their pharmaceutically acceptable salts which have activity as 5-HT1A agonists and antagonists and

therefore

may be useful for the treatment of anxiety, depression, cognitive deficits, prostate cancer, nauses, and vomiting, were prepared Thus, reacting {(IR)-1-cyclohexylmethyl-2-(4-(2-methoxyphenyl)piperazin-1-yl]ethyl]amine with cyclohexanecarboxylic acid chloride in the presence

Et3N in CH2Cl2 afforded 85% (1R)-I.2HCl [X = II (R1 = 2-MeOC6H4); n = 3; R2 = H; R3 = cyclohexylcarbonyl) which showed IC50 of 0.57 nM against 5-HT1L receptor binding.
252894-55-59 252894-55-69 252894-56-67 252894-57-69 252894-57-79 252894-71-69 252894-71-89 Rb: BAC (Biological activity or effector, except adverse); BSU logical

ΙT

tetrahydropyridines as serotonergic sgents)
252894-54-5 CAPLUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[(4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1999:811224 CAPLUS DOCUMENT NUMBER: 132:49981

TITLE:

132:49981
Preparation of cycloalkyl-substituted
aryl-piperarines, piperidines and tetrshydropyridines
as serotonergic agents
Childers, Wayne Everett; Kelly, Michael Gerard;
Palmer, Yvette Latko; Podlesny, Edward James
American Home Products Corporation, USA
PCT Int. Appl., 32 pp.
CODEN: PIXXD2
Patent
English INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: English

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

											LICAT				E	ATE	
											1999-				1	9990	514
	W:	AE.	AL.	AM,	AT,	AU.	AZ,	BA,	BB,	BG.	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
		DE.	DK.	EE.	ES.	PI.	GB.	GD.	GE.	GH	GM.	HR.	HU.	ID,	IL.	IN,	IS.
		JP.	KE.	KG.	KP.	KR.	KZ.	LC.	LK.	LR	LS.	LT.	LU.	LV.	MD.	MG.	MK.
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WO 1999-US13397

OTHER SOURCE(S): MARPAT 132:49981

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

252894-55-6 CAPLUS
Cyclohexanecarboxamide, N-[(IR)-2-cyclohexyl-1-[(4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HC1

252894-56-7 CAPLUS
Cyclohexanecarboxamide, N-{(1R)-2-cyclohexyl-1-[{4-(2-methoxyphenyl)-1-piperaxinyl}methyl]ethyl]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

252894-57-8 CAPLUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[{4-(2-methoxyphenyl)-1-piperazinyl]methyl]-N,1-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

•a HC1

252894-70-5 CAPLUS
Cyclohexanecarboxamide, N-{(1R)-2-cyclohexyl-1-{(4-(2-methoxyphenyl)-1-piperazinyl]methyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) Cyclohexanecarboxamide, N-((1R)-2-cyclohexyl-1-[(4-(2-methoxyphenyl)-1-piperazinyl)methyl]ethyl]-N,1-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR 19

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

252894-71-6 CAPLUS
Cyclohexanecarboxamide, N-[(1R)-2-cyclohexyl-1-[{4-(2-methoxyphenyl)-1-piperazinyl]methyl]ethyl]-1-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

252894-72-7 CAPLUS
Cyclohexanecarboxamide, N-{(1R)-2-cyclohexyl-1-{[4-(2-methoxyphenyl)-1-piperazinyl|methyl]ethyl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 252894-73-8 CAPLUS